

Data Server Featured Topics Michael Burnett

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Data Server Featured Topics Agenda



Mode Mangement

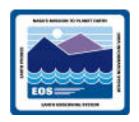
Backup

Compression

Subsetting, Subsampling, and Averaging

Subscriptions

Mode Management



DSS will Support Mode Management with

- Incorporation of PF Infrastructure
- Multiple instantiations of software processes
- Processes are configuration driven
- No mode specific logic in software
- Multiple instances of the COTS (e.g., databases and AMASS)
- Data separation (e.g., test and operational) via naming conventions

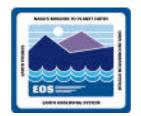
DSS will be consistent with the Transition from A->B guidance

Design References

- MSS Design Specification, 305-CD-029-002, Section 6.1
- Data Server Subsystem Design, 305-CD-024-002, Section 3.2.4

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Backup



System Data Metadata Database

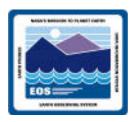
Release A	Release B
Legato Networker	Legato Networker
COTS DBA tools	COTS DBA tools
Manual Procedures	Automatic Backup that is Operator Selectable

Design References

Archived Data

- System Management Design, 305-CD-029-002
- Operations Concepts, 604-CD-002-003, Section 4.2.2 (Backup)
- Operations Scenarios, 605-CD-002-001, Section 5.2.1 (Restore)
- Data Server Subsystem Design, 305-CD-024-002, Section 6

Compression



Insertion

- In support of Inter-DAAC transfer from PRS
- UNIX Compress

Distribution

- Option on "Acquire" service request
- UNIX Compress

Archival

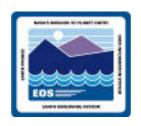
Optionally performed via firmware at tape drives

Design References

- Data Compression Study for the ECS Project, 194-00316-TPW
- Data Server Design, 305-CD-024-003, Section 7

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Subsetting, Subsampling, and Averaging



Subsetting/Subsampling/Averaging Requirements

Data Type Services

- Implemented within CSDTs
- Supported by HDF-EOS capabilities
- Data Type Services Matrix

Design Input

• SSIG

Prototyping Activities

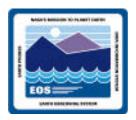
• University of Alabama - Huntsville

Design References

- Data Type Services Matrix, 304-CD-005-001, Appendix F,
 http://ecsinfo.hitc.com/ssig/ssig.html
- IDR-B Slides, Subsetting/Subsampling/Averaging Drill Down, 705-CD-005-001

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Subscriptions



IDG (Infrastructure Development Group) responsibility

DSS still uses subscriptions

• No loss in functionality

Design Reference

• IDG Design, 305-CD-028-002

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